QC ABSTRACT

Nameof Work: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	1:3:6	446.09 Cum	1	1	Cement ,sand , aggregates
2	Steel	6.51 Tonne	1	1	-
3	M20	100.17 Cum	6	6	Concrete Cube Compressive strength
4	Slab - 100mm	143.10 Sqm	1	1	Concrete Core Compressive strength
5	M30	393.62 Cum	11	11	Concrete Cube Compressive strength
6	WMM	296.02Cum	-	-	-
		Atterberg Limits	3	3	-
		AIV	2	2	-
		Shape Test	2	2	-
		Gradation	3	3	-
7	DBM	8.40 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Bitumen content	1	1	-

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8	BC	25.48 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	1	1	-
		Bitumen content	1	1	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 24.02.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,Dasarahalli Sub division, BBMP, Bangalore.**
AGENCY	:	**M/s K T R Constructions(Prop.K.T.Ravi),** Contractor, Mysore.
NAME OF THE WORK	:	Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		Janaury - 2022
DATE OF TESTING		22.02.2022 to 24.02.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 24.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work :Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 24.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	139	13.90	21.40	78.6	75-100
1.18	198	19.80	41.20	58.8	55-90
600 Micron	161	16.10	57.30	42.7	35-59
300 Micron	249	24.90	82.20	17.8	8-30
150 Micron	139	13.90	96.10	3.9	0-10

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Job No.: CACE/BBMP/KTR/W No.14 /2021-22 Date : 24.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 24.02.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	26	2.60	2.60	97.4	90-100
1.18	47	4.70	7.30	92.7	70-100
600 Micron	91	9.10	16.40	83.6	40-100
300 Micron	249	24.90	41.30	58.7	5-70
150 Micron	502	50.20	91.50	8.5	0-15

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ಕಛೇರಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾ.ಮ.ಗ.ಪಂ.ಕೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 24.02.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work :Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 24.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	179	3.6	3.6	96.4	95-100
10	2434	48.7	52.3	47.7	25-55
4.75	1985	39.7	92.0	8.0	0-10

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 24.02.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of Work :Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 24.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	199	1.33	1.33	98.67	95-100
20	8218	54.79	56.11	43.89	30-70
10	3249	21.66	77.77	22.23	10-35
4.75	2789	18.59	96.37	3.63	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date :28.02.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Steel Dia/Length : 8mm, 10mm, 12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :28.02.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.399	538	628	1.17	14
2	TMT	10	0.622	549	641	1.17	14.5
3	TMT	12	0.889	563	652	1.16	15

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 18.03.2022

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Contractor	:	: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of Work	:	:Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	18.03.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.379	2353.94	1.64	0.961	33.40	17.01	18.37	17.66	22.07
2	50.00	84.00	0.387	2346.40	1.68	0.965	33.60	17.11	18.48	17.84	22.30
3	50.00	86.00	0.402	2380.66	1.72	0.970	34.50	17.57	18.98	18.40	23.00

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 11.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.03.2022	11.03.2022	8.147	341.2	15.16
2	04.03.2022	11.03.2022	8.153	344.8	15.32
3	04.03.2022	11.03.2022	8.159	347.5	15.44

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.03.2022	01.04.2022	8.172	502.7	22.34
2	04.03.2022	01.04.2022	8.175	504.3	22.41
3	04.03.2022	01.04.2022	8.181	499.2	22.19

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 11.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	: **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.03.2022	11.03.2022	8.163	342.8	15.24
2	04.03.2022	11.03.2022	8.165	347.3	15.44
3	04.03.2022	11.03.2022	8.169	351.2	15.61

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of the work : Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.03.2022	01.04.2022	8.173	512.8	22.79
2	04.03.2022	01.04.2022	8.179	518.9	23.06
3	04.03.2022	01.04.2022	8.192	521.1	23.16

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ಕ. ದಾಸರಹಳ್ಳಿ
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ಬೆಂಗಳೂರು 560073

For CIVIL AIM CONSULTANTS & ENGINEERS

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 15.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2022	15.03.2022	8.151	339.7	15.10
2	08.03.2022	15.03.2022	8.157	342.8	15.24
3	08.03.2022	15.03.2022	8.142	336.1	14.94

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2022	05.04.2022	8.162	503.4	22.37
2	08.03.2022	05.04.2022	8.149	509.1	22.63
3	08.03.2022	05.04.2022	8.157	498.7	22.16

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 15.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2022	15.03.2022	8.155	340.2	15.12
2	08.03.2022	15.03.2022	8.159	344.8	15.32
3	08.03.2022	15.03.2022	5.167	348.5	15.49

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2022	05.04.2022	8.141	498.2	22.14
2	08.03.2022	05.04.2022	8.146	501.9	22.31
3	08.03.2022	05.04.2022	8.159	503.8	22.39

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 18.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2022	18.03.2022	8.159	353.1	15.69
2	11.03.2022	18.03.2022	8.163	349.7	15.54
3	11.03.2022	18.03.2022	8.139	344.2	15.30

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 08.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2022	08.04.2022	8.175	505.9	22.48
2	11.03.2022	08.04.2022	8.178	509.8	22.66
3	11.03.2022	08.04.2022	8.189	515.1	22.89

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 22.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements to roads and drains near Magnum School Surrounding and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2022	22.03.2022	8.161	354.2	15.74
2	15.03.2022	22.03.2022	8.168	355.7	15.81
3	15.03.2022	22.03.2022	8.144	348.9	15.51

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